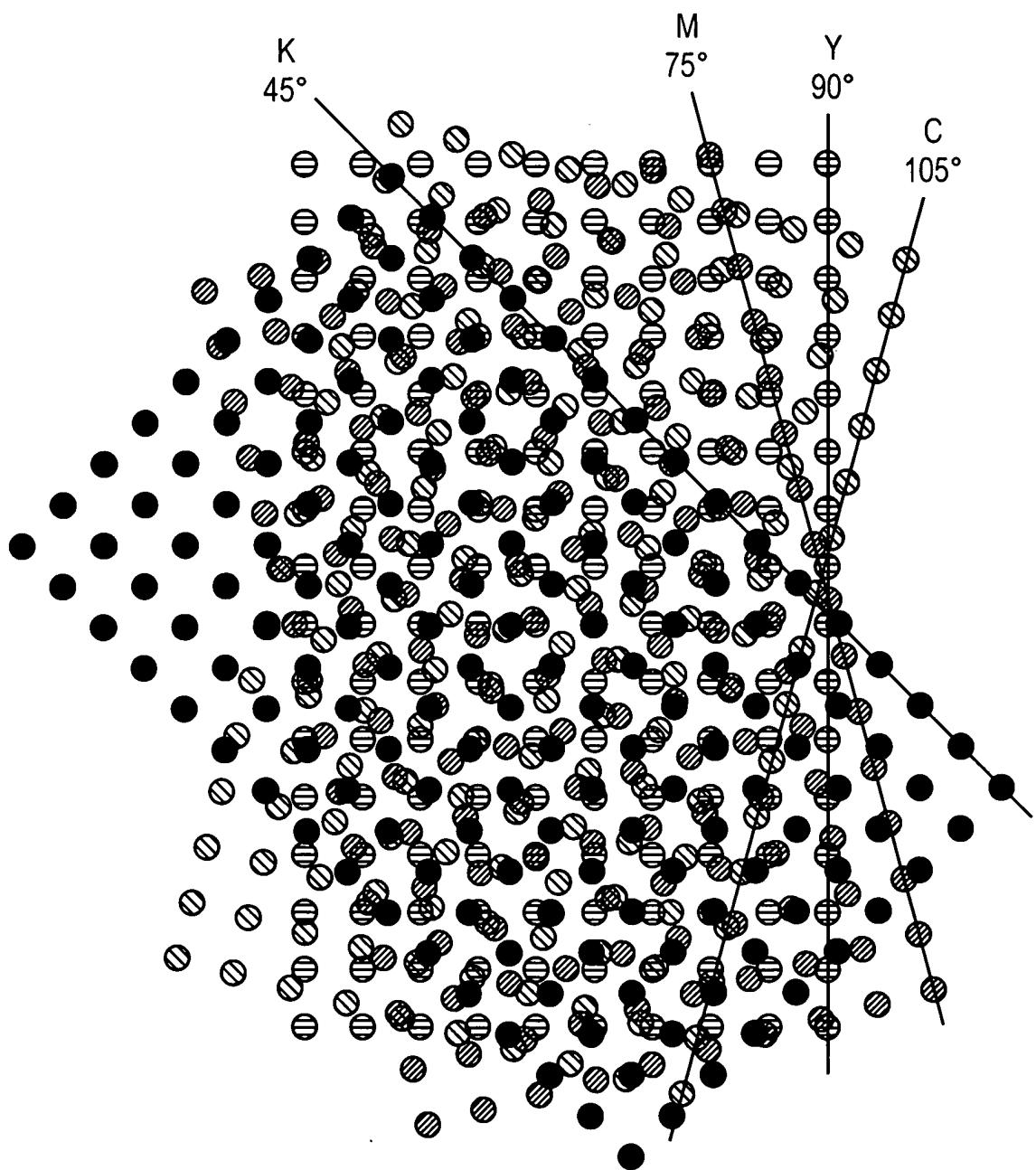


FIG. 1



Traditional Screen Angles

FIG. 2

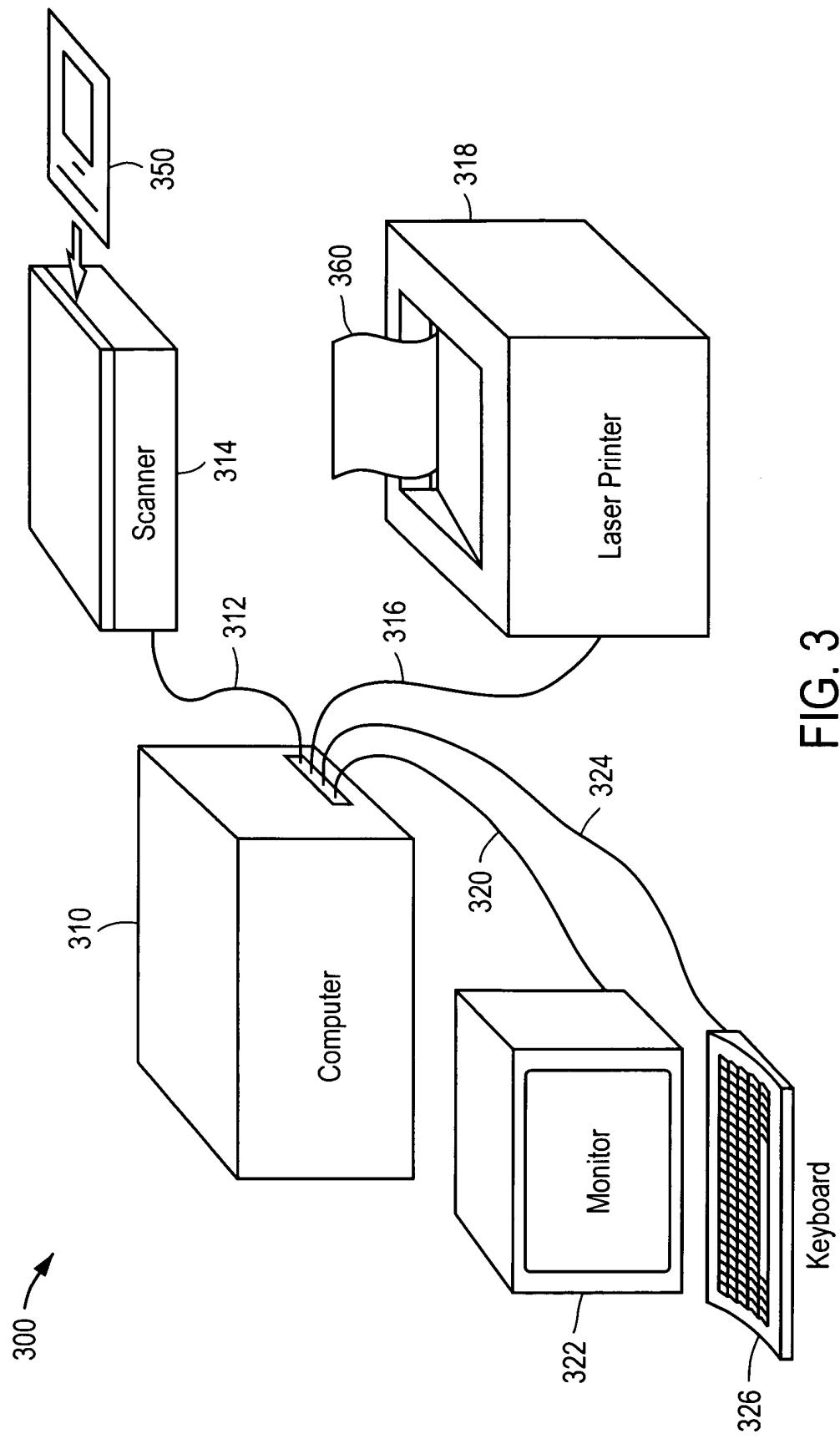


FIG. 3

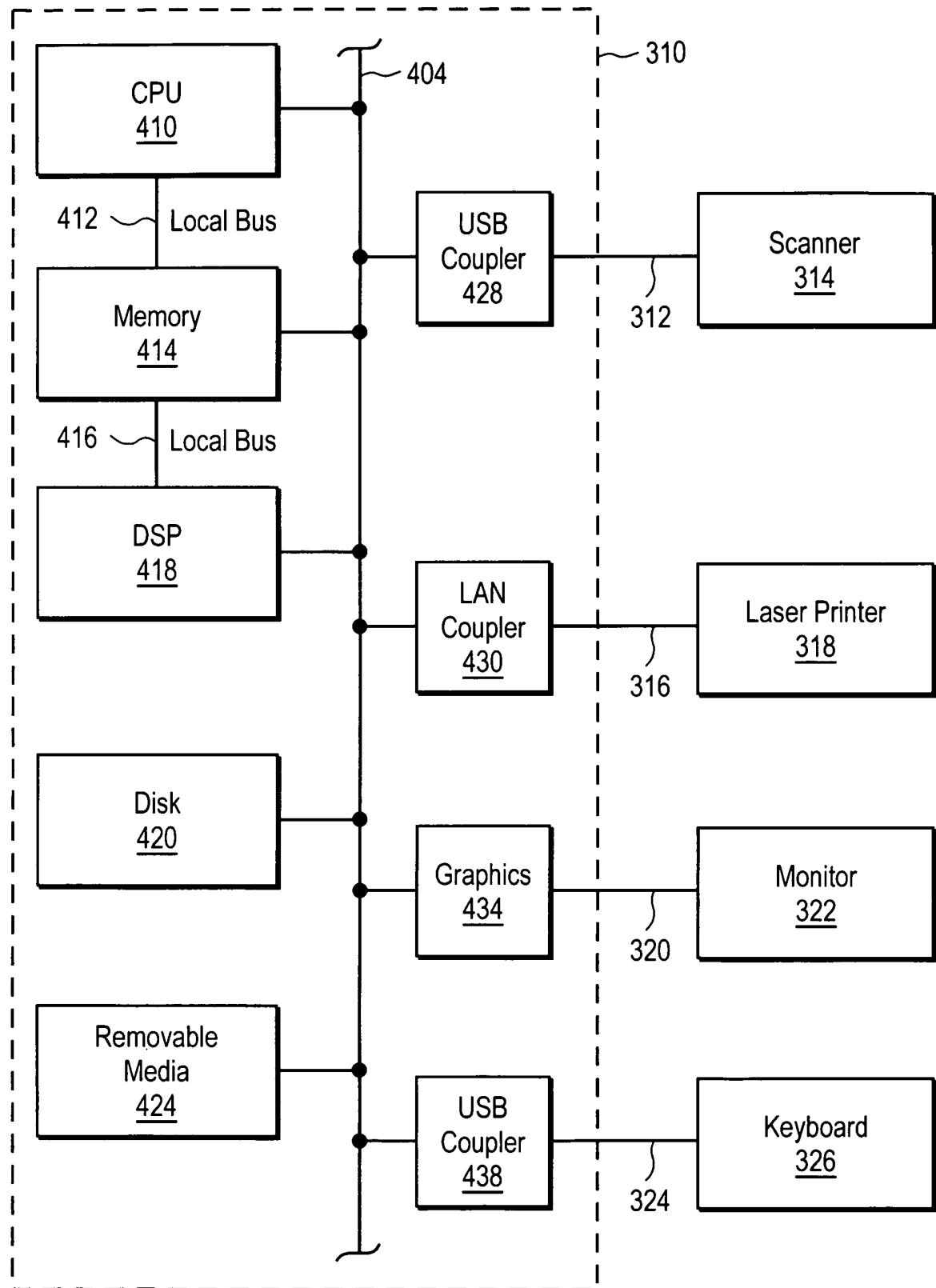


FIG. 4

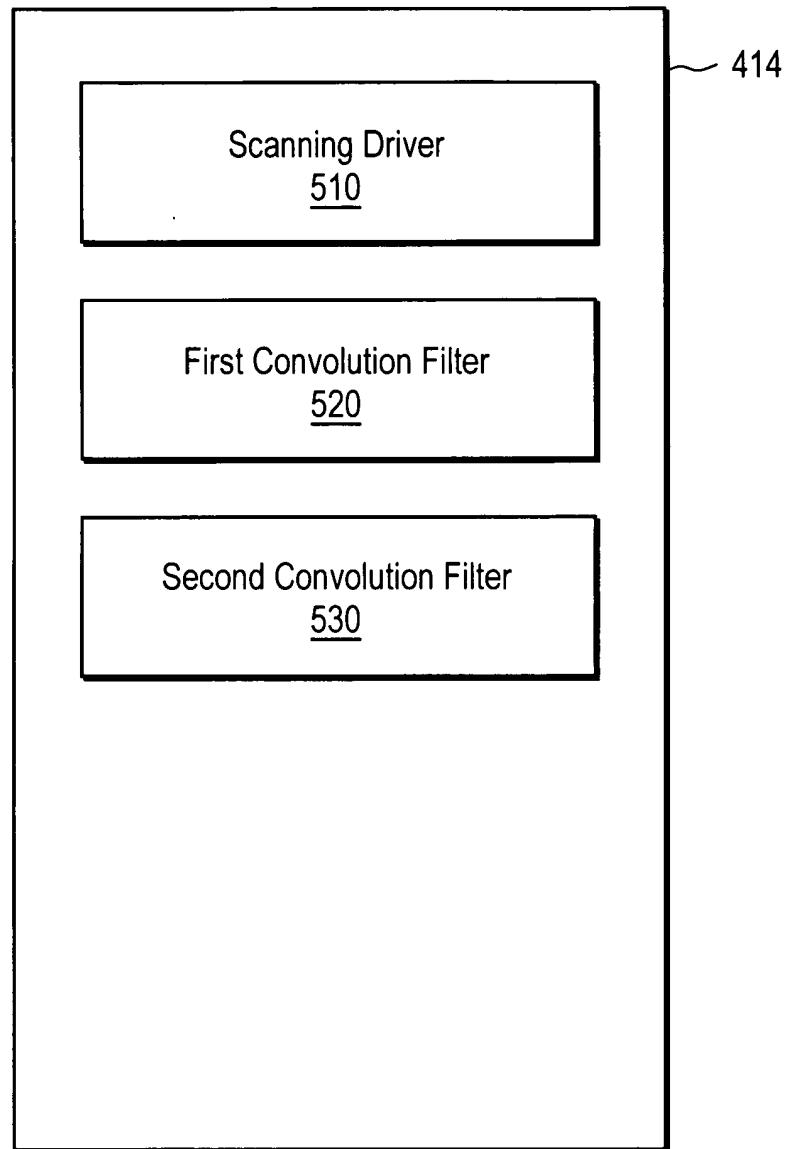


FIG.5

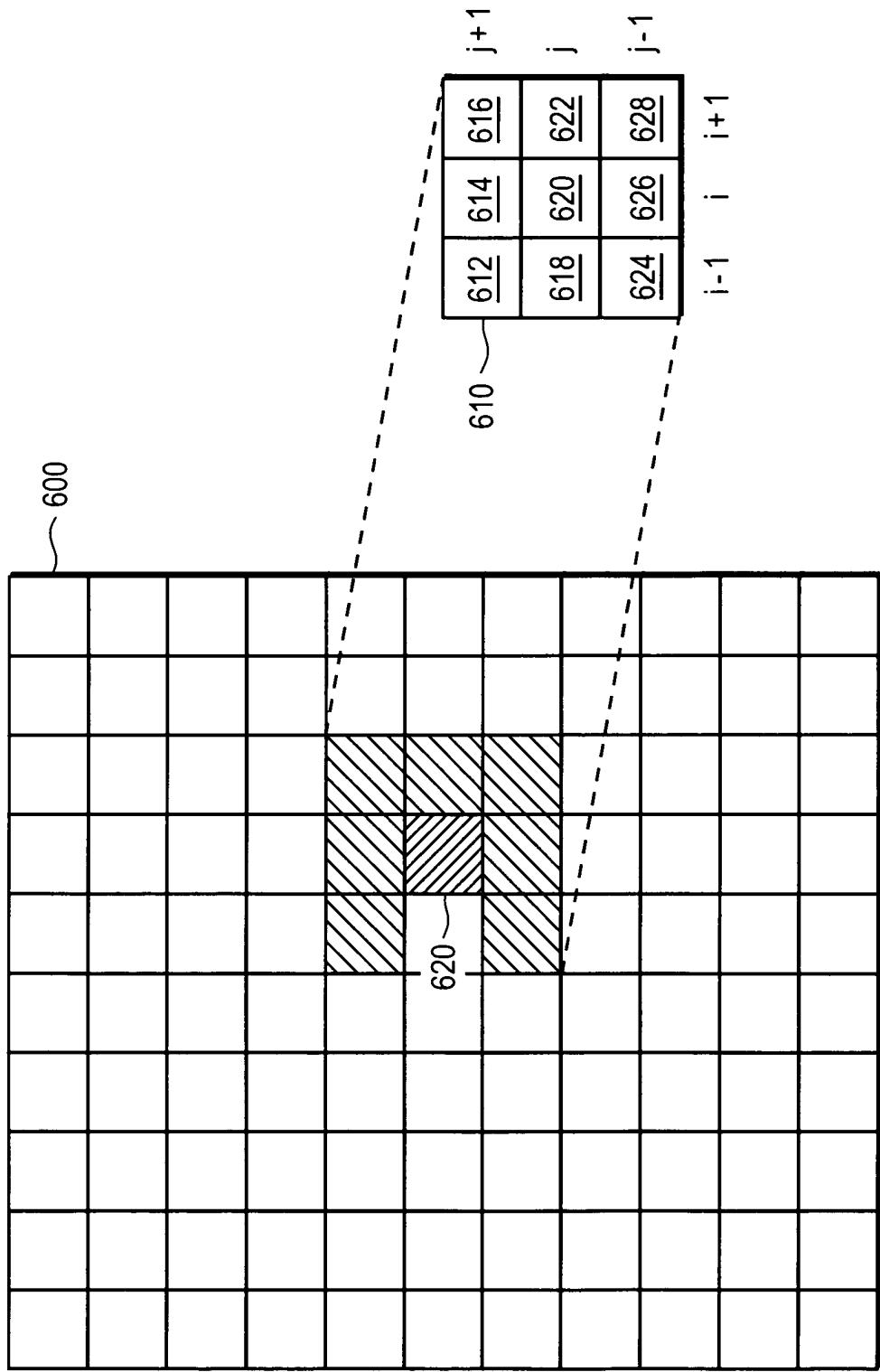
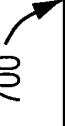


FIG. 6

700 

1	0	0
0	2	0
0	0	1

$c_{-1,1} = c_{1,-1} = 1$
 $c_{0,0} = 2$
All other $c_{kl} = 0$

c_{kl}

$$b_{ij} = \sum_{k=-1}^1 \sum_{l=-1}^1 a_{(i+k)(j+l)} c_{kl} =$$

$$= a_{(i-1)(j+1)} + a_{(i+1)(j-1)} + 2a_{ij}$$

FIG. 7A

750 

0	0	1
0	2	0
1	0	0

$c_{-1,-1} = c_{1,1} = 1$
 $c_{0,0} = 2$
All other $c_{kl} = 0$

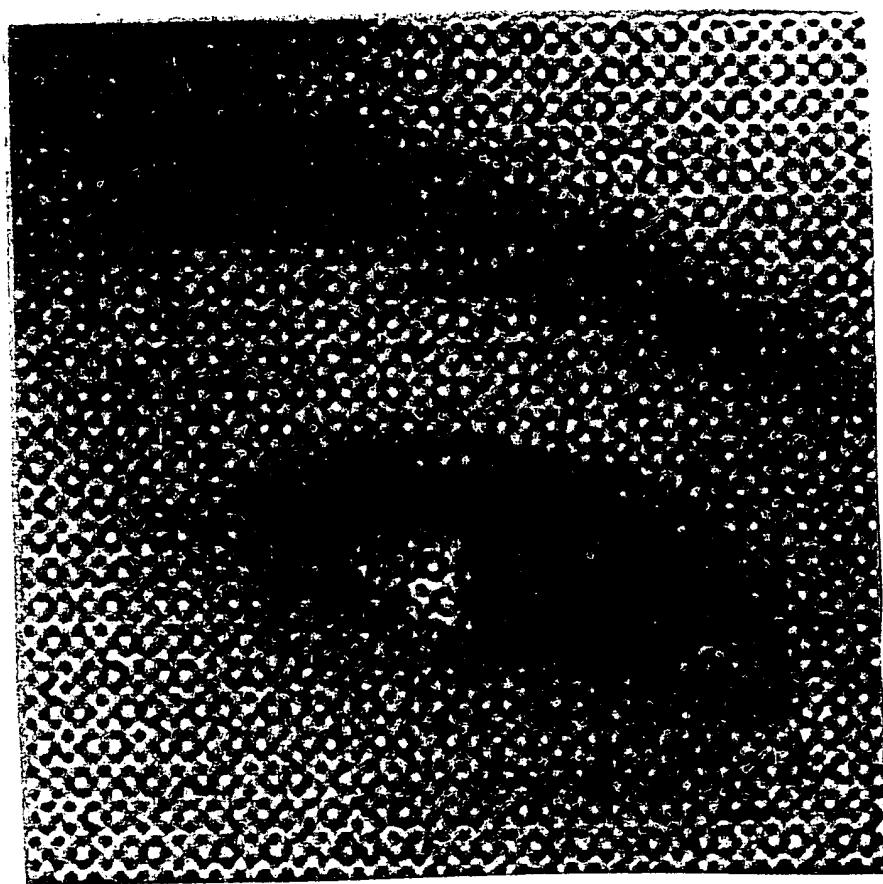
c_{kl}

$$b_{ij} = \sum_{k=-1}^1 \sum_{l=-1}^1 a_{(i+k)(j+l)} c_{kl} =$$

$$= a_{(i+1)(j+1)} + a_{(i-1)(j-1)} + 2a_{ij}$$

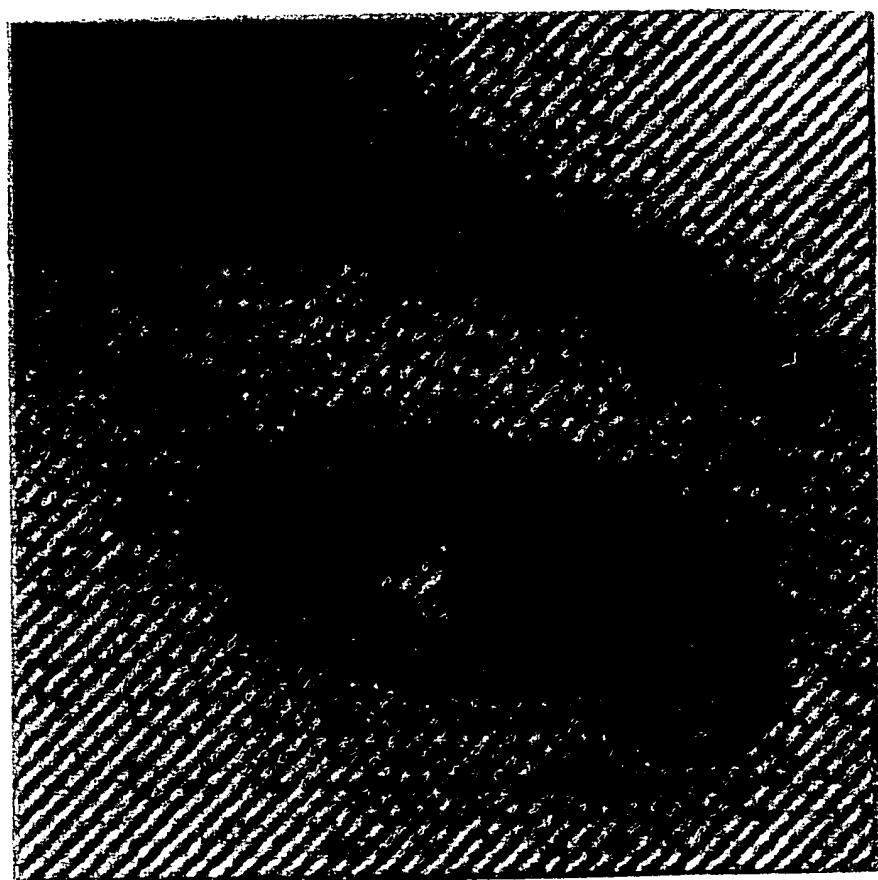
FIG. 7B

FIGURE 8: IMAGE SCANNED USING THE ASTRA 2400S



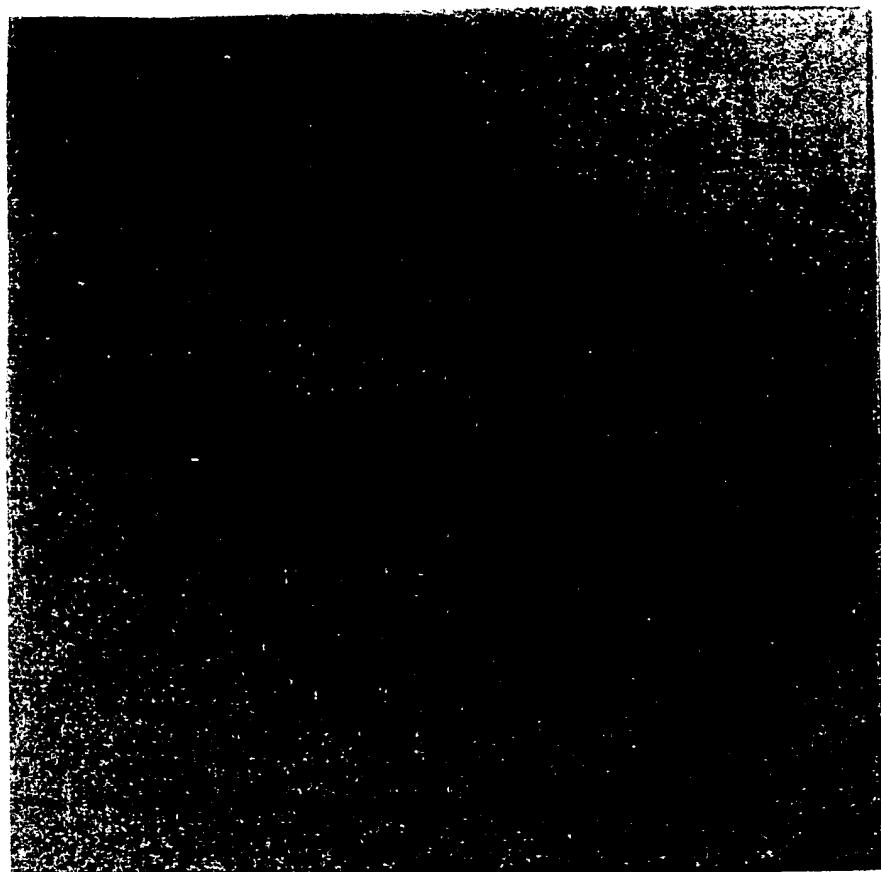
BEST AVAILABLE COPY

FIGURE 9: OUTPUT OF FIRST CONVOLUTION FILTER



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FIGURE 10: OUTPUT OF SECOND CONVOLUTION FILTER



BEST AVAILABLE COPY

FIGURE 11: SCREEN CONVERSION FILTER FREQUENCY RESPONSE

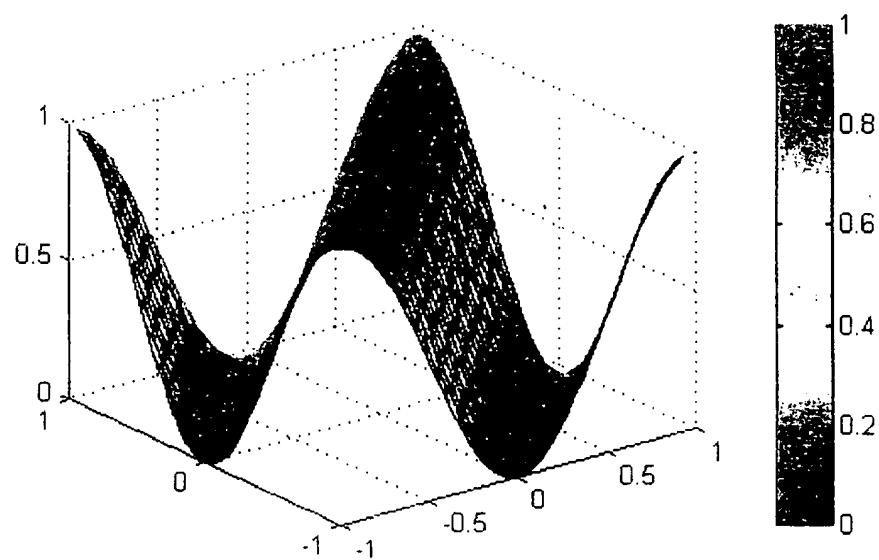


FIGURE 12: LINE SMOOTHING FILTER FREQUENCY RESPONSE

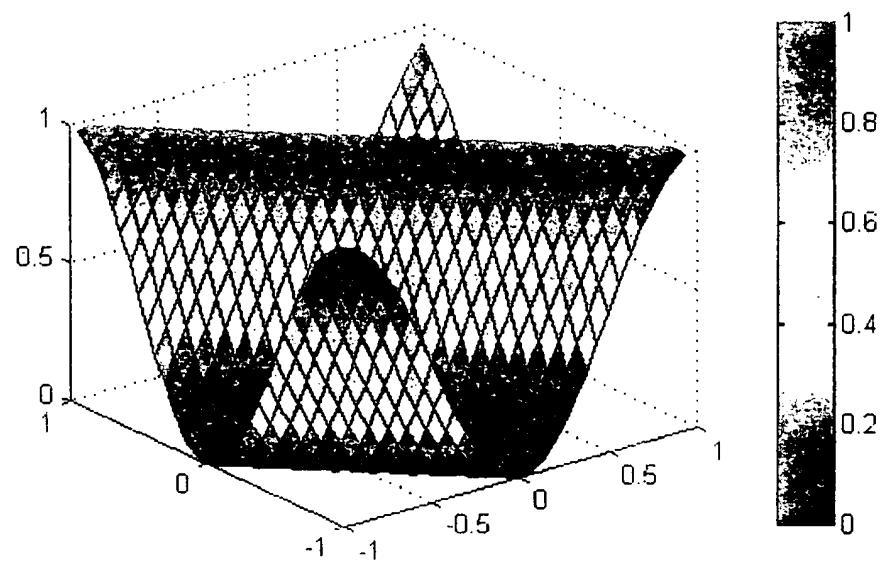


FIGURE 13: DESCREENING FILTER FREQUENCY RESPONSE

